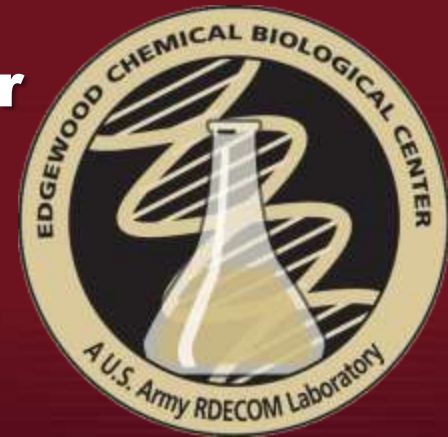




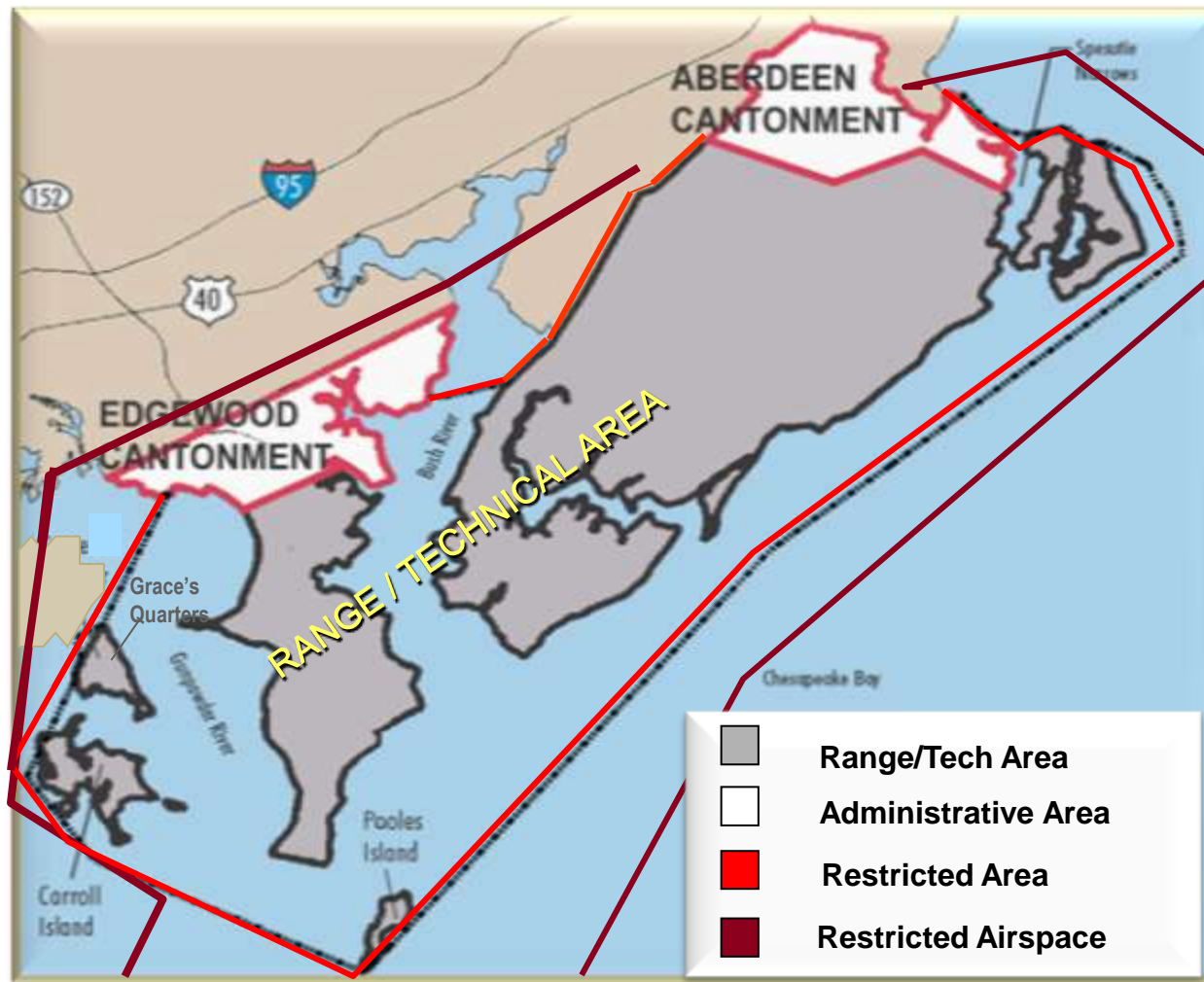
U.S. Army Edgewood Chemical Biological Center Organization Overview



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

Harford/Cecil Leadership Academy,

Ms. Suzanne Milchling, Director, Directorate of Program Integration
08 May 2013



Geographic Area

- Total Acres – 72,000
- Cantonment Area – 6,900 acres
- Range Area – 30,600 land acres
- Water – 34,500 acres or 58 sq miles and 144 miles of shoreline

Developed Infrastructure

- Test facilities – 57
- Surety buildings – 13
- Buildings – 2,410
- Road net work – 210 paved miles
- Leased Area – 1,015 acres
- Potential Leased Area – 500+ acres

Where ECBC Fits





1915-1939

Response to
Chemical Threat



1940-1969

Increased Research &
Development



1970-1999

Progress Toward
Elimination



2000-2009

Supporting the Global
War on Terror

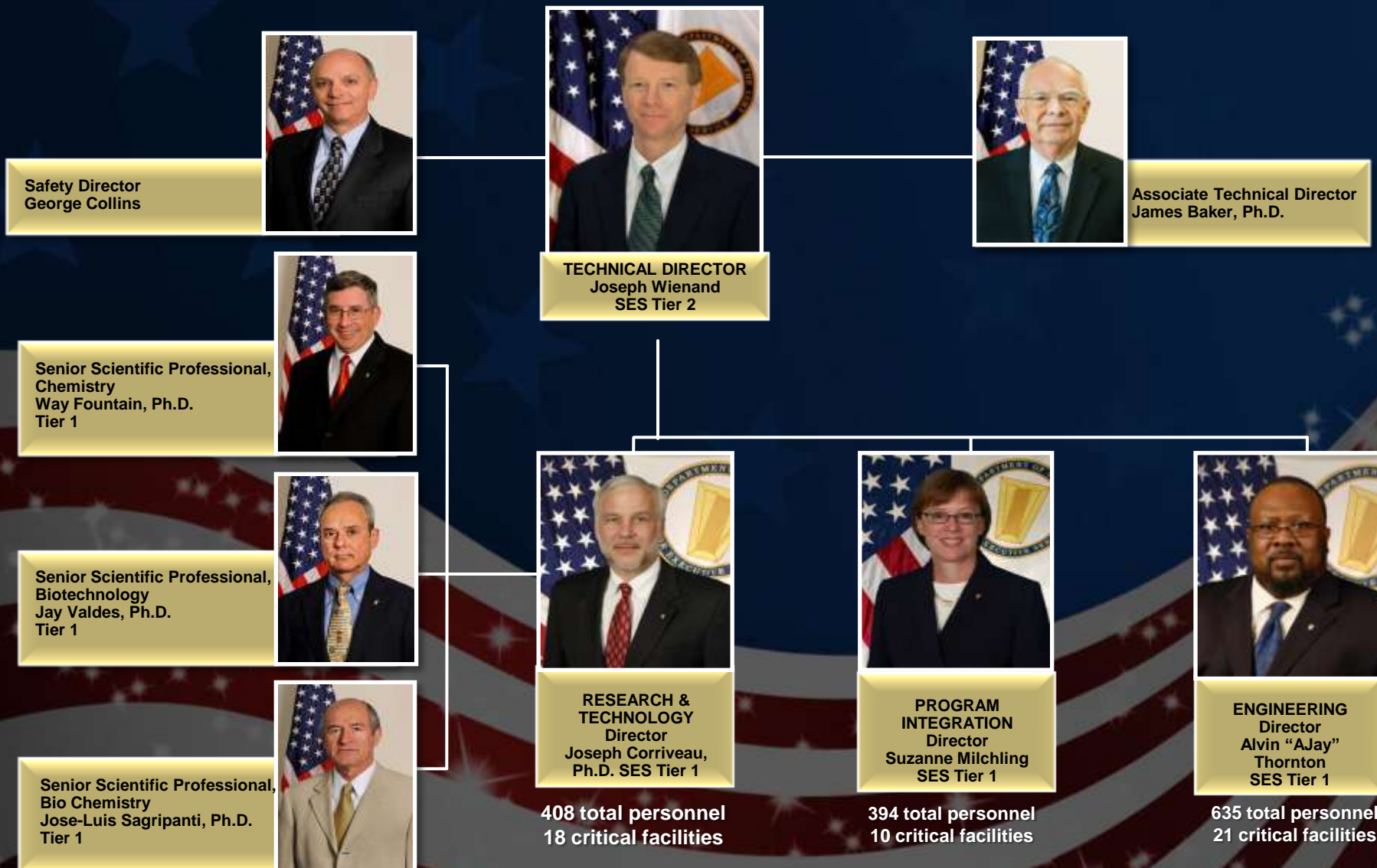


2010-Today

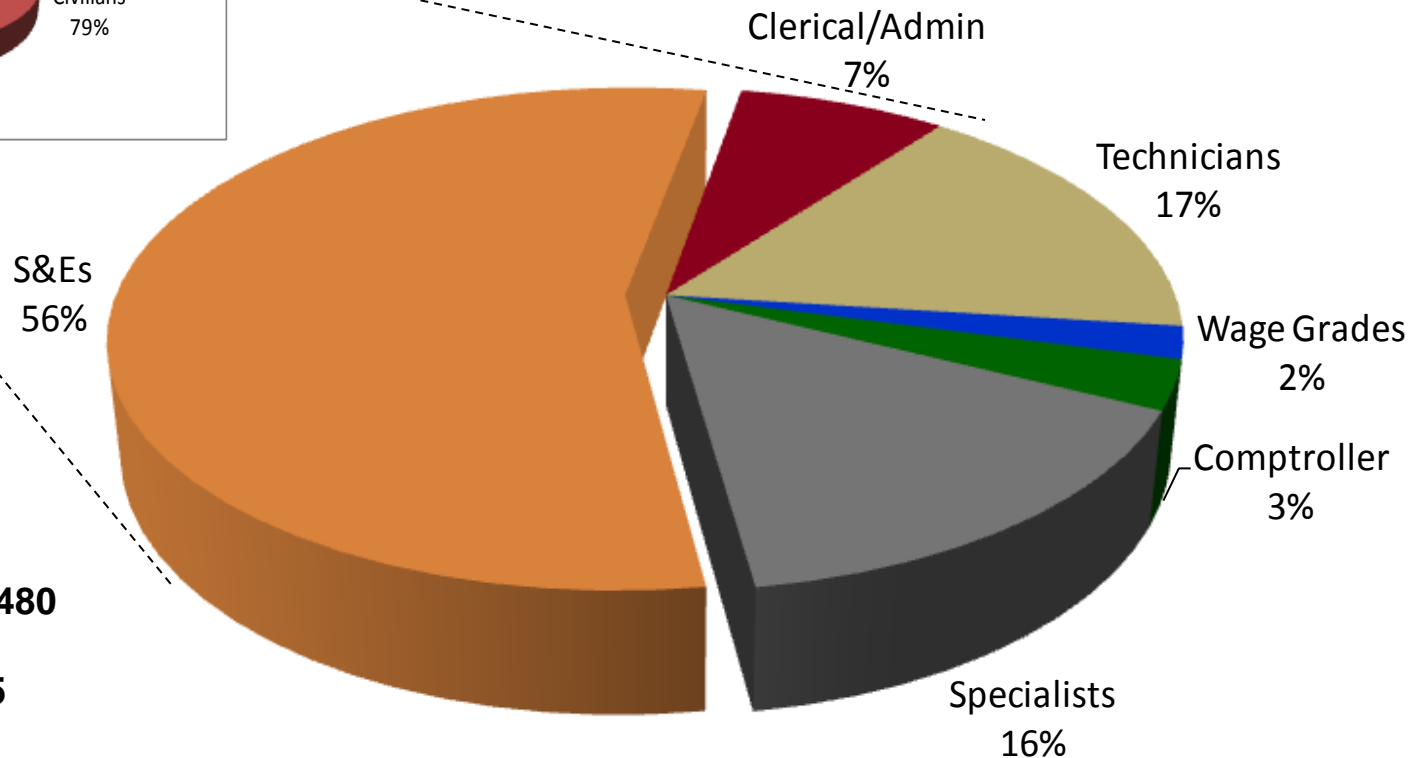
Address Emerging
Threats



ECBC Senior Leadership



Core Personnel Distribution



Total Manpower – 1,480
Civilians – 1,165
Contractors – 315
Military – 0
 as of 31 March 2013

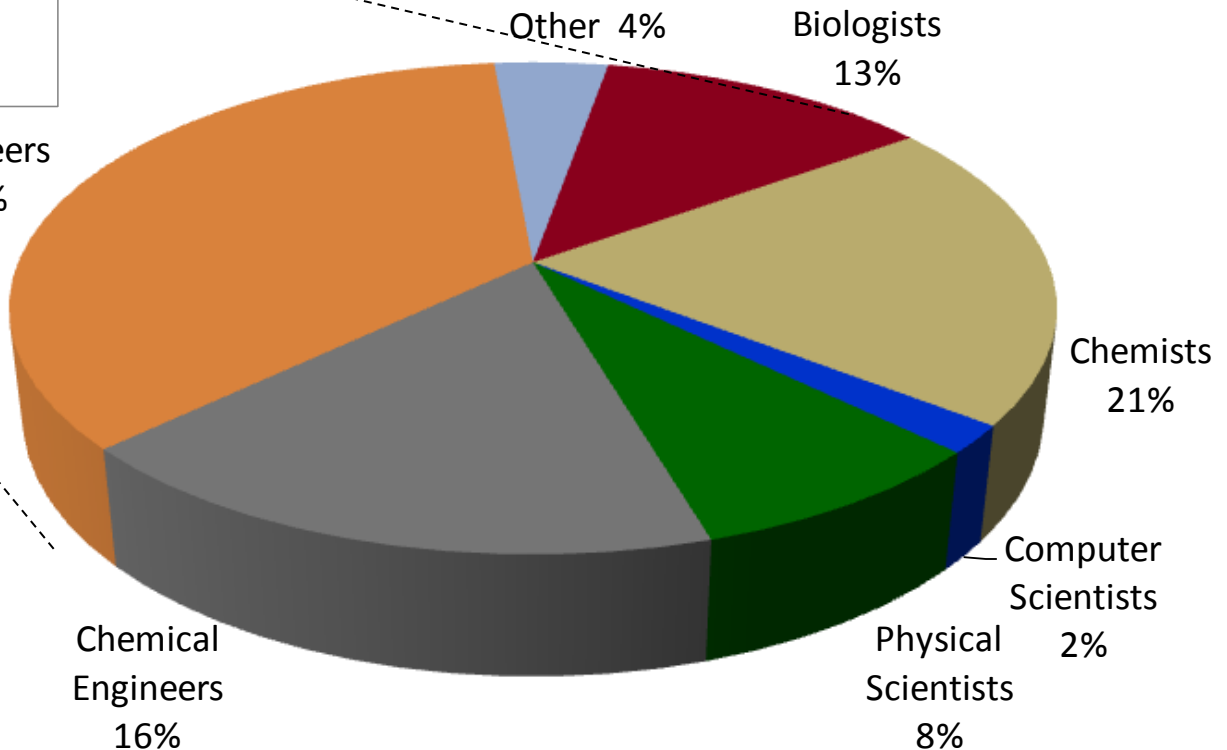
Clerical/Admin	Technicians	Wage Grade	Comptrollers	Specialists	S&Es
62	189	24	38	189	663

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

Technical Staff by Discipline



Total S&E – 663
as of 31 March 2013



Engineers
36%

Other 4%

Biologists
13%

Chemists
21%

Computer
Scientists
2%

Physical
Scientists
8%

Chemical
Engineers
16%

Biologists

Chemists

Computer
Scientists

Physical
Scientists

Chemical
Engineers

Engineers

Other

84

142

12

53

105

237

30

Deployable Employees:
– 250 field-deployable
scientists, engineers,
technicians and operators

**Staff in Personnel Reliability
Program (PRP)***
– 483 staff in chemical PRP
– 97 staff in biological PRP

Biologists	Chemists	Computer Scientists	Physical Scientists	Chemical Engineers	Engineers	Other
84	142	12	53	105	237	30

*61 staff hold dual certifications

**Individuals in the PRP perform duties associated with chemical and biological surety agents.

Facilities

- \$1.8 billion in facilities, equipment
- 1.22 million square feet of critical laboratory and chamber space
- Over 200 buildings
- Sophisticated environmental controls
- Robotic components
- 317 chemical surety hoods
- 66 BSL-2 and BSL-3 hoods
- 3 explosive/toxic test chambers
- 30 multi-purpose mobile platforms for air monitoring
- 30 operational mobile laboratories with hoods and glove boxes

Major Research Facilities



Advanced Chemistry Laboratory



McNamara Life Sciences Bldg.



Bio Technology Laboratory



Forensic Analytical Center

Engineering & Test Facilities



Toxic Test Chambers



Aerosol Test Facilities



Berger Engineering Complex

New, One-of-a-Kind Facilities



Standoff Detection Technology Evaluation Facility



Sample Receipt Facility



Phase II of ACL – Third Wing



Single Small-Scale Facility

- Enables ECBC to accomplish technology transition objectives for the warfighter while benefiting U.S. industry
- Allows R&D collaborations, product development and testing with industry and academia
- Enables industry, academia and other organizations to leverage ECBC's unique assets: intellectual property portfolio, S&E expertise, infrastructure



Mechanisms include:

- Cooperative Research & Development Agreements (CRADAs)
- Technology Support Agreements (TSAs)
- Patent License Agreements (PLAs)
- Other Agreements (IAAs, MOAs, MOUs)

ECBC POC: technical.outreach@apea.army.mil

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

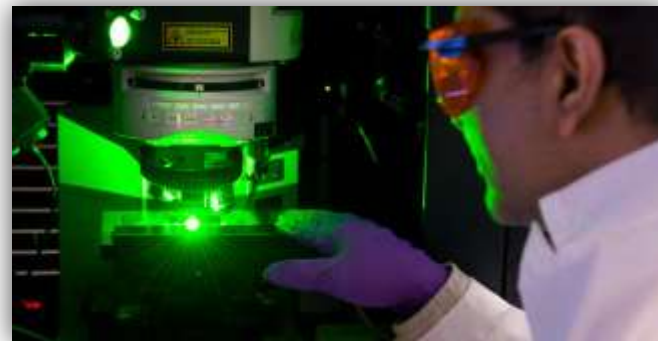
Edgewood Chemical Biological Center
**RESEARCH
&
TECHNOLOGY**

Technical Competencies

- Chemistry & Bioscience of CB Warfare
- CB Analysis and Testing
- CB Agent Handling and Surety
- Science and Technology for the Emerging Threat

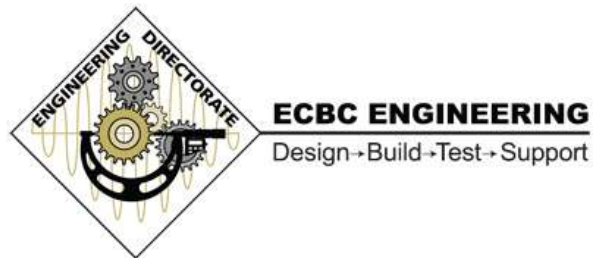


The ECBC Genomic Sequencing Center is a Department of Defense (DoD) resource for sequencing efforts in support of the warfighter.



ECBC's Laser Standoff Detection Branch is using Raman chemical imaging (RCI) to detect and identify the presence of trace explosives in fingerprints.

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.



The Center supported the test and development of the JSGPM mask.



BIDS M31 Non-developmental item, one of three models in the BIDS family

Technical Competencies

- CBRNE Materiel Acquisition
- CB Analysis and Testing
- Science and Technology for the Emerging Threat

Department of Defense Center of Excellence for CBRNE

Edgewood Today

ECBC is co-located with other organizations that together form a consolidated chemical biological (CB) defense community:

- **AFMC** – Air Force Materiel Command, Non Medical Chemical Biological Defense Development and Acquisition
- **ECBC** – Edgewood Chemical Biological Center
- **MRICD** – Medical Research Institute of Chemical Defense
- **JPEO** – Joint Program Executive Office for Chemical and Biological Defense
- **JPM for BD** - Biological Defense
- **JPM for NBC CA** - Nuclear, Biological and Chemical Contamination Avoidance
- **JPM for CM** – Consequence Management
- **CMA** - Chemical Materials Agency
- **ACWA** - Assembled Chemical Weapons Alternatives
- **20th Support Command** – Chemical, Biological, Radiological, Nuclear, High Yield Explosives
- **AML** – Army Medical Lab
- **Public Health Command**
- **DHS** – Department of Homeland Security
- **FBI** – Federal Bureau of Investigation
- **JSTO** – Joint Science & Technology Office



ECBC utilizes numerous protective systems to ensure your safety. They include:

- Engineering Controls/CBR Filtration
- Air Monitoring
- Personal Protective Equipment
- Controlled access to restricted areas
- Warning signs
- All ECBC facilities are tied into 911 emergency response system

Hazards present in areas being visited today:

Chemical agents, Toxic industrial chemicals, Toxins, Biological organisms, Mechanical equipment, Noise



VISITOR REQUIREMENTS

- ✓ Wear personal protective equipment if requested
- ✓ Follow the lead of your escort and alert them of any safety hazards
- ✓ Be aware of all warning signs
- ✓ If building emergency alarm sounds, follow escort direction and proceed to nearest exit

Technology Driven Warfighter Focused

ECBC

EDGEWOOD CHEMICAL BIOLOGICAL CENTER

For more information about the Edgewood Chemical Biological Center visit
www.ecbc.army.mil

[or email the Public Affairs Office](#)

